

Title (en)
BINDER RESIN FOR TONER AND TONERS

Title (de)
BINDERHARZ FÜR TONER UND TONER

Title (fr)
RESINE LIANTE POUR TONER ET TONERS

Publication
EP 1542084 B1 20131002 (EN)

Application
EP 03766700 A 20030801

Priority

- JP 0309811 W 20030801
- JP 2002225151 A 20020801
- JP 2002225139 A 20020801
- JP 2003025883 A 20030203

Abstract (en)
[origin: EP1542084A1] The object of the present invention is to provide a binder resin for toner which is excellent in the low-temperature fixing property and offset resistance as well as in smear resistance, while responding to the demand of the market from the perspectives of environmental protection such as being free from the bisphenol A structure and tin, and a toner using the same. <??>The binder resin for toner can be obtained using a catalyst containing titanium or germanium, preferably comprises the structure derived from branched or alicyclic alcohols, and comprises the structure derived from terephthalic acid as the acid component, which represents greater than or equal to 60 mol% with respect to the number of moles of all acid components, and a toner using the same.

IPC 8 full level
C08G 63/20 (2006.01); **C08G 63/82** (2006.01); **C08G 63/85** (2006.01); **C08G 63/91** (2006.01); **G03G 9/08** (2006.01); **G03G 9/087** (2006.01)

CPC (source: EP KR US)
C08G 63/20 (2013.01 - EP US); **C08G 63/85** (2013.01 - EP US); **C08G 63/914** (2013.01 - EP US); **G03G 9/087** (2013.01 - KR); **G03G 9/08755** (2013.01 - EP US); **G03G 9/08795** (2013.01 - EP US); **G03G 9/08797** (2013.01 - EP US)

Cited by
EP1835352A1; EP2056167A1; EP3103826A4; WO2008000470A2; US7862972B2; WO2013000761A3; WO2008000470A3; US7820350B2; US9340691B2; US9785074B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1542084 A1 20050615; **EP 1542084 A4 20090422**; **EP 1542084 B1 20131002**; AU 2003254793 A1 20040223; CN 100458577 C 20090204; CN 1675592 A 20050928; KR 100666408 B1 20070110; KR 20050006232 A 20050115; TW 200403550 A 20040301; TW 594452 B 20040621; US 2006167214 A1 20060727; US 7115702 B2 20061003; WO 2004013702 A1 20040212

DOCDB simple family (application)
EP 03766700 A 20030801; AU 2003254793 A 20030801; CN 03818564 A 20030801; JP 0309811 W 20030801; KR 20047017895 A 20030801; TW 92121111 A 20030801; US 52175905 A 20050119